

Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A process of manufacturing an inductive component intended to be installed on a printed circuit and including at least one winding and a magnetic core, the process comprising:
 - winding a wire having ends to form a winding in the form of a flat coil, the winding step being performed without using a former;
 - connecting the ends of the winding to inner ends of connecting terminals;
 - overmoulding a body from a block of an insulating material onto the coil and onto the inner ends of the connecting terminals so that a lower face of the body is at least generally orthogonal to an axis of the coil, the body including a central opening formed therethrough which passes along the axis of the coil; and
 - placing a core made of ferrite on the body such that the core surrounds the body in a center plane containing the axis of the coil and has a center core element passing through the opening of the body.
2. (original) A process in accordance with claim 1, wherein the wire includes a thermobonding outer layer, and further comprising passing an electrical current through the wire of an amperage sufficient to heat the wire to bond turns of the winding together.
3. (original) A process according to claim 1, further comprising bonding the coil to a grid that has the connecting terminals formed thereon.

4. (original) A process in accordance with claim 1, wherein the core comprises core elements bonded to each other with a non-magnetic adhesive.
5. (currently amended) A process in accordance with claim 1, wherein the step of placing the core comprises placing a core is made of two elements, wherein on the body such that each of the elements extends along a respective face of the body, wherein one of the elements is E-shaped so as to have a center arm and two outer arms, and wherein, during the placing step, the center arm of the E-shaped element passes through the opening of the body and the outer arms pass along two opposite sides of the body.
6. (original) A process in accordance with claim 1, wherein the step of overmoulding is performed via a transfer moulding encapsulation process using a thermosetting epoxy resin.
7. (original) A process in accordance with claim 1, wherein the step of overmoulding is performed via an injection process using a thermoplastic polymer.
8. (original) A process in accordance with claim 7, wherein, during the injection process, the thermoplastic polymer is injected at a temperature higher than 300° C.
9. (original) A process in accordance with claim 7, wherein, during the injection process, the injection pressure ranges from to 40 to 60 bars.
10. (original) A process in accordance with claim 7, wherein the injection cycle time of the injection process is less than 15 seconds.

11–17 (cancelled)